

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-46 (cancelled)

47. (previously presented) A nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO:125.

48. (currently amended) A host cell comprising a nucleic acid molecule according to claim 47 ~~or a vector according to claim 11~~.

49. (previously presented) The host cell of claim 48, wherein said host cell is *E.coli*.

50. (currently amended) A method of producing a virus-like particle comprising:

- (a) providing a nucleic acid molecule according to claim 47 ~~or a vector according to claim 11~~;
- (b) introducing said nucleic acid or said vector into a host cell; and
- (c) expressing said nucleic acid or the sequence of said vector in said host cell to obtain a protein capable of forming said virus-like particle.

51. (previously presented) The method of claim 50, wherein said host cell is *E.coli*.

Claims 52-57 (cancelled)

58. (previously presented) A virus-like particle comprising at least one protein selected from the group consisting of:

- (a) a protein comprising amino acids 2-131 of SEQ ID NO:1;
- (b) a protein comprising amino acids 2-131 of SEQ ID NO:3; and
- (c) a mutein of SEQ ID NO:1, wherein said mutein consists of an addition, deletion or substitution of one to three amino acids from amino acids 1-131 of SEQ ID NO:1.

59. (previously presented) The virus-like particle of claim 58, wherein said protein is recombinant.

60. (previously presented) The virus-like particle of claim 58 comprising at least one protein comprising amino acids 2-131 of SEQ ID NO:3.

61. (previously presented) The virus-like particle of claim 58 comprising at least one mutein of SEQ ID NO:1, wherein said mutein consists of an addition, deletion or substitution of one amino acid from amino acids 2-131 of SEQ ID NO:1.

62. (previously presented) A vector for producing an AP205 virus-like particle, wherein said vector comprises a nucleotide sequence encoding a protein comprising amino acids 2-131 of SEQ ID NO:3.

63. (previously presented) A vector for producing an AP205 virus-like particle, wherein said vector comprises a nucleotide sequence encoding a mutein of SEQ ID NO:1, wherein said mutein consists of an addition, deletion or substitution of one to three amino acids from amino acids 2-131 of SEQ ID NO:1.

64. (previously presented) The vector of claim 63, wherein said mutein consists of an addition, deletion or substitution of one amino acid from amino acids 2-131 of SEQ ID NO:1.

Claims 65-102 (cancelled)

103. (previously presented) A host cell comprising the vector of claim 62 or 63.

104. (currently amended) The host cell of claim ~~101~~ 103, wherein said host cell is *E.coli*.

105. (previously presented) A method of producing a virus-like particle comprising

- (a) providing a vector according to claim 62 or claim 63;
- (b) introducing said vector into a host cell; and
- (c) expressing the sequence of said vector in said host cell to obtain a protein or a mutein capable of forming a virus-like particle.

106. (previously presented) The method of claim 105, wherein said host cell is *E.coli*.